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### BURRELL 3.0-012

TITLE: VIRTUAL KEYBOARD AND CONTROL MEANS

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# FIELD OF THE INVENTION

This invention relates to a data entry method on split space bar keyboards and an eight bit binary computer data code used as an eight dot braille arrangement, method of finger braille communication for the blind, deaf-blind, visually impaired, cerebral palsy, speech impaired, etc. and a method of producing a space, letters, numbers, data, symbols, characters, control, fonts, graphics, etc. on an eight sensor chordic data entry device or a split space bar keyboard.

# BACKGROUND OF THE INVENTION

This patent application is an improvement on the invention found in U.S. Patent #5,993,089, in which a copyright and a patent was granted.

## DESCRIPTION OF PRIOR ART

There are numerous well-known, prior art keyboards along with systems and methods for inputting data into typewriters, braille writers, word processors, phones, computers, laptops, keyboards, touch screen input devices, PDAs, cell phones, virtual keyboards and the like. Unfortunately, most modern systems are inherently slow, difficult to learn, not organized

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in a logical fashion and/or cumbersome for the general population, including the handicapped, visually impaired, speech impaired, motion disabled and the like. The most used prior art keyboard is the QWERTY keyboard which derives its name from the first six letters on the top row of the alphabet keys or sensors. The data entry touch typing method, invented by the blind, is the method taught to use the QWERTY keyboard. The QWERTY keyboard and QWERTY touch typing method has been around longer than any other keyboard, excluding the piano, and was originally designed to slow down typists so that manual typewriter keys would not jam. A good explanation of the history of the QWERTY keyboard is set forth in an article entitled "TYPING WITH A TWO-HAND CHORD KEYBOARD: WILL THE QWERTY BECOME OBSOLETE" by Daniel Gopher and David Raij, IEEE Transactions on Systems, Man, and Cybernetics, Volume 18, No. 4, July-August 1988, pages 601-609.

In response to the relatively slow and cumbersome QWERTY system, some new word processors and computers have moved to the improved Dvorak layout, although very few. One of the characteristics of the Dvorak keyboard is that the vowels a, o, e, u and i form the first five keys of the second alphabetic row of the keyboard. The United States Department of the Navy tested the Dvorak design and found it to produce up to a twenty percent increase in typing speeds. While improved efficiencies are possible and proven with the Dvorak keyboard, it still does have some drawbacks, the major one of

which is that the keys are not laid out in an ergonomic fashion to follow the natural ergonomic positions of the hands and fingers. Moreover, because there are more keys than the operator has digits, it is necessary for the operator to continually move his or her hands and fingers up and down or left and right to find and depress the appropriate key or keys. This tends to reduce the overall speed of the typist.

In order to increase speed, the chordic keyboard was invented. There are a number of chordic keyboards on the market, some of which have sets of linear rows, some have curved rows, some have vertical rows or some have horizontal rows. The common denominator is that it has fewer keys than the common QWERTY keyboard or the Dvorak keyboard, and that chords are employed, i.e. combinations of keys or sensors, to enter or produce specific letters, numbers, symbols, characters or functions. The fastest data entry keyboard presently used is the court stenographer's phonetic chord keyboard. There are other keyboards and devices available for attachment to personal computers and the like, in order to provide additional functions or to increase the speed of data entry.

The patent literature describes a number of efforts to improve the speed and efficiency of data entry on keyboards. For example, U.S. Patent 4,680,572 to Meguire, et al. entitled CHORD ENTRY KEYING OF DATA FIELDS describes a keyboard

arrangement, which in one embodiment, has eleven keys arranged in two sets of five, for either hand, and a common enter key located between the two hands. The system permits the entry of data in a chord-like fashion provided that the common function key is depressed during a predetermined time frame prior to or after the depression of the last data key. Efforts to arrange keyboard keys in a vertical fashion is also described in certain prior art literature. U.S. Patent 3,428,747 to Alferieff entitled MAN TO MACHINE COMMUNICATION KEYBOARD

DEVICE discloses a keyboard arrangement in which the four digits and thumb of the right and left hands, respectively, are positioned adjacent to two sets of keyboards, each having five keys, that are vertical and substantially adjacent to each other. The keyboard system permits the entry of data into a computer, radio system, interface or the like.

Other keyboard apparatuses and systems of possible relevance include the following U.S. Patents:

329,675; 477,062; 506,718; 578,785; 753,318; 1,293,023; 1,409,386; 1,487,115; 1,733,605; 1,771,953; 20 1,932,914; 1,936,089; 1,998,063; 2,012,924; 2,028,516; 2,031,017; 2,040,248; 2,150,364; 2,187,592; 2,189,023; 2,190,752; 2,192,594; 2,200,807; 2,282,102; 2,312,138; 2,390,414; 2,428,605; 2,520,142; 2,532,228; 2,581,665; 2,616,198; 2,634,052; 2,641,769; 2,718,633; 2,823,468; 2,850,812; 2,972,140; 3,021,611; 3,022,878; 3,102,254;

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3,166,856; 3,184;554; 3,197,889; 3,225,883; 3,234,664; 3,241,115; 3,277,587; 3,369,643; 3,375,497; 3,381,276; 3,428;747; 3,466,647; 3,507,376; 3,526,892; 3,582,554; 3,633,724; 3,675,513; 3,772,597; 3,781,802; 3,798,599; 3,818,448; 3,831,147; 3,831,296; 3,833,765; 3,879,722; 3,929,216; 3,945,482; 3,967,273; 3,970,185; 3,980,823; 3,982,236; 4,042,777; 4,067,431; 4,074,444; 4,132,976; 4,159,471; 4,185,282; 4,333,097; 4,350,055; 4,360,892; 4,467,321; 4,494,109; 4,516,939; 4,655,621; 4,680,572; 4,791,408; 4,804,279; 5,087,910; 5,217,311; 5,281,966; 5,361,083; 5,459,458; 5,486,058; 5,459,458; 5,515,305; 5,642,108, and an IBM Technical Disclosure Bulletin Vol. 18 No. 12 dated May 1976 entitled; DIGITAL X TYPEWRITER KEYBOARD which discloses two sets of five ergonomicly arranged keys for each hand, where each key is operated by one of the ten digits on the left and right hands. The two thumb keys each produce a space. The eight finger keys use a three position switch (down, away and toward) or a five position switch as home row keys. Downward activation produces home row data, away activation produces top alphabetic row data and toward activation produces bottom row data found on the QWERTY keyboard.

While the foregoing all appear to represent improvements in the art of keyboard systems, they nevertheless tend to be difficult to learn and difficult to use, especially by individuals who are sight, hearing, learning or motion

impaired. Of all the patents and technologies researched, none use or claim an eight bit binary computer code used as a data entry means. The most relevant technologies to this patent application are IBM's three copyrighted seven bit codes (excluding the parity bit); the eight bit EBCDIC computer code (Extended Binary Coded Decimal Interchange Code), the eight bit ASCII (American Standard Code for Information Interchange) code and the extended ASCII computer code. The eight dot computer braille code is a top dot configured code and is read as an entire cell from top to bottom.

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# SUMMARY OF THE INVENTION

Briefly described, the present invention uses an eight bit binary code arrangement, read from left to right, on at least eight sensors using a four bit binary code combined with a four bit binary code system, read from left to right, to produce data. The first left binary bit of the binary code has the numeric value of one, the second left binary bit has the numeric value of two, the third left binary bit has the numeric value of four, the fourth left binary bit has the numeric value of eight, the fifth right binary bit has the numeric value of sixteen, the sixth right binary bit has the numeric value of thirty-two, the seventh right binary bit has the numeric value of sixty-four, and the last eighth right binary bit has the numeric value of one hundred and twenty-eight.

The present invention comprises an eight bit binary code for use as an alternative eight dot braille arrangement, an alphanumeric data entry system and method for chordic eight key or eight sensor binary keyboards or a method of finger braille communication for the deaf-blind.

Activation of at least one sensor enters an eight sensor data entry mode. Activation of at least one sensor can be an "ON" button, a "hot" key on a device, a mode change button, etc. Activating at least one sensor of at least eight sensors enters an eight sensor data entry mode. Activation of at least

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one sensor can be an "ON" button, a "hot" key on a device, a mode change button, etc. Activating all eight sensors enters an eight sensor data entry mode. Activation of all eight sensors can be eight sensors on a keyboard, eight sensors on a split space bar keyboard, eight sensors on a touch screen data entry device, etc.

The present invention produces a data character, function or data character string (macro) by activating at least one sensor of the eight sensors used. Activating at least one sensor of the eight sensors followed by the activation of at least one sensor of the eight sensors produces a secondary data character (upper-case letters / extended character sets), a function or a data character string (macro).

Activating at least one sensor of a first set of four sensors combined with an unused second set of four sensors produces a vowel. Activating at least one sensor of a first set of four sensors combined with the activation of at least one sensor of a second set of four sensors produces a vowel or a vowel with a diacritical mark. Activating at least one sensor of a first set of four sensors combined with the activation of at least one sensor of a second set of four sensors produces a consonant. An unused first set of four sensors combined with the activation of at least one sensor of a second set of four sensors combined with the activation of at least one sensor of a second set of four sensors produces a space. An unused first set of four sensors combined with the activation of at least

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one sensor of a second set of four sensors produces a punctuation mark. Activating at least one sensor of a first set of four sensors combined with the activation of at least one sensor of a second set of four sensors produces a symbol. Activating at least one sensor of a first set of four sensors combined with the activation of all the sensors of a second set of four sensors produces a number or a math function. Activating at least one sensor of a first set of four sensors combined with the activation of all the sensors except one sensor of a second set of four sensors produces a function.

The present invention also uses a split space bar keyboard as a data entry device where the fourth left binary bit has the numeric value of eight and is a left thumb sensor or a left space bar, and the fifth right binary bit has the numeric value of sixteen and is a right thumb sensor or a right space bar.

Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object in a first direction by activating a left sensor and moves an object in a second opposite direction by activating a right sensor.

Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object to the left by activating a left sensor and moves an object to the right by activating a right sensor. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus rotates

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an object to the left by activating a left sensor and rotates an object to the right by activating a right sensor. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object backward by activating a left sensor and moves an object forward by activating a right sensor. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object forward by activating a left sensor and activating a right sensor simultaneously. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object backward by activating a left sensor and a right sensor simultaneously followed by activating a left sensor and a right sensor simultaneously.

Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves the cursor to the left activating a left sensor and moves the cursor to the right by activating a right sensor. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus deletes data to the left of the cursor by activating a left sensor and deletes data to the right of the cursor by activating a right sensor. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus reverses the last change by activating a left sensor and reverses the last undo by activating a right sensor.

Any apparatus for entering data on at least eight sensors

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or on any two sensor apparatus exits a first data entry mode and enters a cursor movement mode by activating a left thumb sensor and a right thumb sensor simultaneously, followed by the activation of a left thumb sensor moves the cursor to the left and activation of a right thumb sensor moves a cursor to the right. Activating a left thumb sensor and a right thumb sensor simultaneously exits a cursor movement mode and enters a delete mode, followed by the activation of a left thumb sensor deletes data to the left of a cursor and activating a right thumb sensor deletes data to the right of a cursor. Activating a left thumb sensor and a right thumb sensor simultaneously exits a delete mode and re-enters a first data entry mode.

One preferred feature of the present invention uses at least eight sensors to produce secondary types of data by exiting a first mode and shifting into a second mode by the entry of at least one data character. The shift function is included in the eight sensor code allowing the ability to use the shift for entering secondary data sets. Shifting into a secondary mode like the bold, italics, underline, etc. mode, is produced by entering the b, i, u, etc.

Another feature of the present invention uses at least eight sensors to produce secondary types of language script data sets by exiting a first mode and shifting into a second mode by entering the language code data character string to

produce a secondary language script data set. Entering the country code data character string produces a secondary language script data set. Entering the country's area code data character string produces a secondary language script data set.

The system and method of the invention is logically developed and implemented so that it is easy to learn and quick to use, especially for those who are handicapped or sight impaired.

These and other features of the present invention will be more fully understood by reference to the following drawings.

## BRIEF DESCRIPTION OF THE DRAWINGS

- FIG. 1A-1P. Illustrates one preferred arrangement of the eight bit code embodiment of the disclosed invention.
- FIG. 2. Illustrates a the frequency of letters used in the English language found in (a)press reporting, (b)religious writing, (c)scientific writing, (d)general fiction, (e)word averages and (f)Morse Code.
  - FIG. 3A. Illustrates one preferred layout of the eight bit code embodiment for lower-case letters.
  - FIG. 3B. Illustrates one preferred layout of the eight bit code embodiment for upper-case letters.
  - FIG. 3C. Illustrates one preferred layout of the eight bit code embodiment for punctuation.
- FIG. 3D. Illustrates one preferred layout of the eight bit code embodiment for containment chords.
  - FIG. 3E. Illustrates one preferred layout of the eight bit code embodiment for horizontal and vertical lines.
  - FIG. 3F. Illustrates one preferred layout of the eight bit code embodiment for numbers.
- FIG. 3G. Illustrates one preferred layout of the eight bit code embodiment for common math functions.
  - FIG. 3H. Illustrates one preferred layout of the eight bit code embodiment for functions.

- FIG. 3I. Illustrates one preferred layout of the eight bit code embodiment for foreign letters.
- FIG. 3J. Illustrates one preferred layout of the eight bit code embodiment for monetary symbols.
- 5 FIG. 3K. Illustrates one preferred layout of the eight bit code embodiment for control elements.
  - FIG. 3L. Illustrates one preferred layout of the eight bit code embodiment for symbols.
  - FIG. 4A. Illustrates one preferred arrangement of the eight bit code embodiment as a tactile eight dot braille cell on the bottom and the standard six dot braille cell on top. The standard six dot braille requires only one cell to represent lower-case letters and requires two cells to represent upper-case letters.
- 15 FIG. 4B. Illustrates one preferred arrangement of the eight bit code embodiment as a tactile eight dot braille cell on the bottom and the standard six dot braille cell on top.

  The standard six dot braille requires two cells to represent numbers.
- FIG. 4C. Illustrates one preferred arrangement of the eight bit code embodiment as a tactile eight dot braille cell on the bottom and the standard six dot braille cell on top.

  The standard six dot braille requires only one cell to represent some punctuation and very few symbols.

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# DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

During the course of this description, the reverse binary numeric value (#0)-(#255) will be used to identify like elements according to the different figures and tables which illustrate the invention. For ease of discussion, during the course of this description, the Phone Code, the left (1-4-7-\*)and right (#-9-6-3) rows on a standard twelve button phone, will also be used to easily identify like elements according to the different figures and tables which illustrate the invention. The correlation between the Reverse binary (code), KEYS pressed (QWERTY keyboard), Fingers (used) and Finger Braille (sender) tables is understood as the same code arrangement with different representations. In the KEYS pressed for the QWERTY keyboard table, "<" is the left space bar and ">" is the right space bar. A useful mnemonic technique is to remember the preferred right hand digit representation is by the phonetic word TIMR (timer) which stands for the thumb (T), index (I), middle (M), and ring (R) digits. In order to more fully understand the invention, the preferred embodiment of the invention is shown in FIGS. 1A-1P and is restructured for easier learning and memorization in FIGS. 3A-3L. FIG. 2 shows the frequency of letters used in the English language and the mnemonic logic of invention shown in FIGS. 3A-3L. The preferred embodiment of the invention is also shown in FIGS 4A-4B as eight dot braille arrangement.

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The present invention uses an eight bit binary code arrangement read from left to right on at least eight sensors using a four bit binary code combined with a four bit binary code system, read from left to right, to produce data. The first left binary bit of the binary code has the numeric value of one and is preferably a ring digit sensor, the second left binary bit has the numeric value of two and is preferably a middle digit sensor, the third left binary bit has the numeric value of four and is preferably an index digit sensor, the fourth left binary bit has the numeric value of eight and is preferably a thumb digit sensor, the fifth right binary bit has the numeric value of sixteen and is preferably a thumb digit sensor, the sixth right binary bit has the numeric value of thirty-two and is preferably an index digit sensor, the seventh right binary bit has the numeric value of sixty-four and is preferably a middle digit sensor, and the last eighth right binary bit has the numeric value of one hundred and twenty-eight and is preferably a ring digit sensor.

One preferred arrangement of the eight bit code embodiment is illustrated in FIG. 1A-1P. The data entry keyboard system includes at least eight binary sensors divided up into two sets of four binary sensors each. A first set of four sensors includes four binary sensors which are preferably adapted to be depressed or activated, respectively, by the ring digit, middle digit, index digit and thumb digit of the first preferred left hand group of the operator. The little

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digit of the first preferred left hand group is not used according to the preferred embodiment, but can be used instead of the thumb. Similarly, a second set includes the following four binary sensors which are preferably adapted to be depressed or activated, respectively, by the thumb digit, index digit, middle digit and ring digit of the second preferred right hand group of the operator. The little digit of the second preferred right hand group is not used, according to the preferred embodiment, but can be used instead of the thumb.

The present invention comprises an eight bit binary code for use as an alternative eight dot braille arrangement, an alphanumeric data entry system and method for chordic eight key or eight sensor binary keyboards or a method of finger braille communication for the deaf-blind.

Activation of at least one sensor enters an eight sensor data entry mode. Activation of at least one sensor can be an "ON" button, a "hot" key on a device, a mode change button, etc. Activating at least one sensor of at least eight sensors enters an eight sensor data entry mode. Activation of at least one sensor of the eight sensors used can be an "ON" button, a "hot" key on a device, a mode change button, etc. Activating all eight sensors enters an eight sensor data entry mode. Activation of all eight sensors can be eight sensors on a keyboard, eight sensors on a split space bar keyboard, eight

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sensors on a touch screen data entry device, etc.

The present invention produces a data character, function or data character string (macro) by activating at least one sensor of the eight sensors used. Activating at least one sensor of the eight sensors combined with the activation of at least one sensor of the eight sensors produces a secondary data character (upper-case letters / extended character sets), a function or a data character string (macro).

The entry of vowels is produced with a first group of four binary sensors activated by four digits of the first group or preferred left hand. The entry of consonants is produced with a second group of four binary sensors activated by four digits of the second group or preferred right hand in simultaneous combination with the consonant's preceding binary vowel chord produced on a first group of four binary sensors activated by the four digits of the first group or preferred left hand.

Activating at least one sensor of a first set of four sensors combined with an unused second set of four sensors produces a vowel. Activating at least one sensor of a first set of four sensors combined with the activation of at least one sensor of a second set of four sensors produces a vowel or a vowel with a diacritical mark found in non-English alphabet based languages.

The vowels "a", "e", "i", and "o" are produced by a

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binary key or sensor of a first set of four binary sensors activated by a first group of four digits of the first preferred left hand from right to left by independently activating the preferred thumb digit for the "a", the preferred index digit for the "e", the preferred middle digit for the "i" or preferred ring digit for the "o", respectively, of the first group of four digits of the preferred left first hand group against the corresponding binary key or sensor of the first set of four binary sensors. The vowel "u" is produced by simultaneously activating the two inside binary sensors of a first set of four binary sensors by the two inside digits, the preferred index and middle digit of the first group of four digits of the preferred left first hand group. The vowel "y" is produced by simultaneously activating the two outside binary sensors of a first set of four binary sensors by the two outside digits, the preferred ring and thumb digits of the first group of four digits of the preferred left first hand group.

Lower-case letters are produced according to the table illustrated in FIG. 3A. The vowels "a"(#8), "e"(#4), "i"(#2) and "o"(#1) are produced by independently activating, respectively, the four binary sensors (\*), (7), (4) and (1) of the preferred left first set by the preferred thumb digit (\*), the preferred index digit (7), the preferred middle digit (4) and the preferred ring digit (1) on the preferred left first hand group, respectively. The vowel "u" (#6) is produced by

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simultaneously activating the two inner binary senors by the middle digit (4) and the index digit (7). These are the two inside digits of the preferred left first hand group and is logically suggestive of the vowel "u" used in sign language for the deaf. The occasional vowel "y" (#9) is produced by simultaneously activating the two outer binary senors by the ring digit (1) and the thumb digit (\*). These are the two outside digits of the preferred left first hand group and is logically suggestive of the vowel "y" used in sign language for the deaf.

All consonants are produced by a second set of four binary sensors by depression or activation with the preferred right second hand group binary chords in simultaneous combination with binary vowel chords produced on the first set of four binary sensors by the preferred left first hand group. The keyboard system and method takes advantage of the fact that the vowels "a"(#8), "e"(#4), "i"(#2), "o"(#1), "u"(#6)" and "y"(#9) are somewhat evenly distributed throughout the alphabet separated by either three or five consonants in each case. There are five consonants following the vowels "i" and "o". In the vowel "i" binary consonant chord grouping, the consonants "1"(#34), "m"(#66) and "n"(#130) are the consonants more frequently used, and in the vowel "o" binary consonant chord grouping, the consonants "r"(#33), "s"(#65) and "t"(#129) are the consonants more frequently used. Therefore, the least used consonants "j"(#98), "k"(#194) and "p"(#97),

"q"(#193) are given an extra binary bit each for their preferred right second hand group binary consonant chords.

FIG. 3A. is a table summarizing the manner in which lower case English language alphabet letters "a"(#8) through "z"(#41) are produced; either by use of the first set of four binary sensors depressed or activated by the preferred left first hand group exclusively (in the case of producing vowels), or through the use of the first set of four binary sensors depressed or activated by the preferred left first hand group in simultaneous combination with the second set of four binary sensors depressed or activated by the preferred right second hand group to produce consonants.

Activating at least one sensor of a first set of four sensors combined with the activation of at least one sensor of a second set of four sensors produces a consonant.

Consonants are produced by simultaneously producing a binary vowel chord with the first set of four binary sensors by a first group of four digits of the preferred left first hand group and simultaneously activating the appropriate binary sensors of a second set of four binary sensors with the second group of four digits, the preferred thumb, index, middle or ring digit or digits of the preferred right second hand group. Because the vowels a, e, i, o, u and y are relatively evenly distributed throughout the alphabet, it makes logical sense to form the consonants "b"(#40), "c"(#72)

and "d"(#136) with the depression or activation of a binary key or sensor by the preferred thumb digit of the preferred left first hand group, the vowel "a"(#8), in simultaneous combination with the depression or activation of a binary key or sensor of a second set of four binary sensors by the index digit for the consonant "b", middle digit for the consonant "c" and ring digit for the consonant "d", respectively, of the second group of four digits of the preferred right second hand group.

An unused first set of four sensors combined with the activation of at least one sensor of a second set of four sensors produces a space. Independent activation of the first preferred right thumb binary key or sensor (#) produces a "space".

Lower-case letters are produced according to the table illustrated in FIG. 3A.

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Activating (#) produces "space"(#16),
activating (*) produces "a"(#8),
activating (*)(9) produces "b"(#40),
activating (*)(6) produces "c"(#72),
activating (*)(3) produces "d"(#136),
activating (7) produces "e"(#4),
activating (7)(9) produces "f"(#36),
activating (7)(6) produces "g"(#68),
activating (7)(3) produces "b"(#132),
activating (4) produces "i"(#2),
activating (4)(9)(6) produces "j"(#98),
activating (4)(6)(3) produces "k"(#194),
activating (4)(9) produces "l"(#34),
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activating (4)(6) produces "m"(#66),
     activating (4)(3) produces "n"(#130),
     activating (1) produces "o"(#1),
     activating (1)(9)(6) produces "p"(#97),
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     activating (1)(6)(3) produces "q"(#193),
     activating (1)(9) produces "r"(#33),
     activating (1)(6) produces "s"(#65),
     activating (1)(3) produces "t"(#129),
      activating (4)(7) produces "u"(#6),
     activating (4)(7)(9) produces "v"(#38),
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     activating (4)(7)(6) produces "w"(#70),
      activating (4)(7)(3) produces "x"(#134),
      activating (1)(*) produces "y"(#9), and
      activating (1) (*)(9) produces "z"(#41).
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Independent activation of the first preferred right thumb binary key or sensor (#) produces a "space". Activation of the first preferred right thumb binary key or sensor (#) produces the "Shift" function when combined with a vowel or a consonant.

Capital letters are produced according to the table illustrated in FIG. 3B.

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Activating (#) produces "space"(#16),
activating (*)(#) produces "A"(#24),
activating (*)(#)(9) produces "B"(#56),

25 activating (*)(#)(6) produces "C"(#88),
activating (*)(#)(3) produces "D"(#152),
activating (7)(#) produces "E"(#20),
activating (7)(#)(9) produces "F"(#52),
activating (7)(#)(6) produces "G"(#84),

30 activating (7)(#)(3) produces "H"(#148),
activating (4)(#) produces "I"(#18),
activating (4)(#)(9)(6) produces "J"(#114),
activating (4)(#)(6)(3) produces "K"(#210),
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activating (4)(#)(9) produces "L"(#50),
      activating (4)(#)(6) produces "M"(#82),
      activating (4)(#)(3) produces "N"(#146),
      activating (1)(#) produces "O"(#17),
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      activating (1)(#)(9)(6) produces "P"(#113),
      activating (1)(\#)(6)(3) produces "Q"(#209),
      activating (1)(#)(9) produces "R"(#49),
      activating (1)(#)(6) produces "S"(#81),
      activating (1)(#)(3) produces "T"(#145),
10
      activating (4)(#)(7) produces "U"(#22),
      activating (4)(\#)(7)(9) produces "V"(\#54),
      activating (4)(\#)(7)(6) produces "W"(\#86),
      activating (4)(\#)(7)(3) produces "X"(\#150),
      activating (1) (#)(*) produces "Y"(#25), and
      activating (1)(\#)(*)(9) produces "Z"(#57).
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An unused first set of four sensors combined with the activation of at least one sensor of a second set of four sensors produces a punctuation mark.

Shown in the table in FIG. 3c, punctuation marks are produced using only the second set of four binary sensors depressed or activated by the preferred right second hand group. The logic behind using the preferred right second hand group only is that most punctuation occurs at the far right end of a group of words or a sentence.

Punctuation is produced according to the table illustrated in FIG. 3C.

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Activating (9) produces "."(#32), activating (3) produces ","(#128), activating (6) produces "!"(#64), activating (#)(9)(6) produces "?"(#112), activating (9)(6) produces ":"(#96),
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activating (9)(3) produces ";"(\#160), activating (\#)(9)(3) produces """(\#176), and activating (\#)(3) produces "'"(\#144).
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Activating at least one sensor of a first set of four sensors combined with the activation of at least one sensor of a second set of four sensors produces a symbol.

Monetary symbols are produced according to the table illustrated in FIG. 3J.

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Activating (1)(4)(6) produces "¢"(#67), activating (1)(4)(3) produces "\mathbf{C}"(#131), activating (1)(4) produces "\mathbf{z}"(#3), activating (1)(4)(9) produces "\mathbf{E}"(#35), activating (1)(4)(#)(9) produces "\mathbf{E}"(#51), activating (1)(4)(#)(9) produces "\mathbf{z}"(#99), activating (1)(4)(6)(3) produces "\mathbf{z}"(#195), activating (1)(4)(#)(9)(6) produces "\mathbf{z}"(#115), activating (1)(4)(#)(6) produces "\mathbf{z}"(#13), activating (1)(4)(#)(6) produces "\mathbf{z}"(#19), and activating (4)(*)(#)(6) produces "\mathbf{z}"(#165).
```

It is possible to choose a variety of data entry choices including containment groups, movement chords, operating chords (e.g., enter, tab, shift, insert, etc.), Latin based foreign language letters, consonants and punctuation, punctuation marks, monetary symbols, symbols and graphics, chords, containment chords, etc.

For example, the table in FIG. 3H illustrates certain binary containment chord groups that have mirror image binary chords. Containment groups are instructions like brackets [],

parentheses (), etc. It is also useful to provide the common movement instructions such as moving a cursor up or down, tab, home, page up or down, etc.

Containment chords are produced according to the table illustrated in FIG. 3D.

```
Activating (4) (*) produces "("(#10), activating (#) (6) produces ")"(#80), activating (1) (4) (*) produces "["(#11), activating (#) (6) (3) produces "]"(#208), activating (1) (7) (*) (3) produces "{"(#141), activating (1) (#) (9) (3) produces "}"(#177), activating (7) (9) (3) produces "<"(#164), activating (1) (7) (9) produces ">"(#37), activating (1) (7) (9) produces ">"(#37), activating (4) (7) (*) (#) (9) produces "«"(#62), activating (7) (*) (#) (9) (6) produces "»"(#124), activating (1) (7) (*) produces """(#13), and activating (#) (9) (3) produces """(#176).
```

Control element chords are produced according to the table illustrated in FIG. 3K.

```
20
      Activating (9)(6)(3) produces "Enter"(#7),
      activating (1)(4)(*)(#) produces "Esc"(#27),
      activating (6)(3) produces "Tab"(#192),
      activating (4)(7)(*)(#) produces "PgUp"(#30),
      activating (4)(7)(*)(3) produces "PgDn"(#142),
25
      activating (1)(4)(7)(*)(#) produces "Up"(#31),
      activating (1)(4)(7)(*)(3) produces "Down"(#143),
      activating (1)(4)(7)(*)(#)(9) produces "Left"(#63),
      activating (1)(4)(7)(*)(6)(3) produces "Right"(#207),
      activating (1)(4)(7)(*)(9)(6) produces "Home"(#111),
30
      activating (4)(7)(*)(#)(6) produces "End"(#94),
      activating (1)(4)(7)(*)(#)(9)(3) produces "Shift"(#191),
      activating (1)(4)(7)(*)(9)(3) produces "Shift Out"(#175),
```

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```
activating (1)(4)(7)(*)(9) produces "Ctrl"(#47), activating (1)(4)(7)(*)(\#)(6)(3) produces "Alt"(#223), activating (1)(4)(7)(*)(\#)(9)(6)(3) produces "Ins"(#255), and activating (1)(4)(7)(*) produces "Delete"(#15).
```

5 Horizontal and vertical lines are produced according to the table illustrated in FIG. 3E.

```
Activating (1)(4)(7)(\#) produces "_"(\#23), activating (1)(4)(7)(9) produces "\"(\#39), activating (1)(4)(7)(6) produces "\"(\#71), and activating (1)(4)(7)(3) produces "/"(\#135).
```

Activating at least one sensor of a first set of four sensors combined with the activation of all the sensors of a second set of four sensors produces a number or a math function.

The system enters or produces the number mode by the simultaneous depression or activation of a second set of four binary sensors by a second group of four digits, the preferred thumb, index, middle and ring digits of the preferred right second hand group in simultaneous combination with the entry or production of the desired specific binary number chord with the four digits on the first group of four digits of the preferred left hand group. The preferred left first hand group digits enter or produce the specific chosen binary number chords between 0 and 9 in a reverse binary abacus chordic fashion with the preferred ring digit binary key or sensor of the preferred left first hand group producing the binary number "1" (#241), the preferred middle digit binary key or

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sensor producing the binary number "2" (#242), the preferred index digit binary key or sensor producing the binary number "4" (#244), the preferred thumb digit binary key or sensor producing the binary number "8" (#248), then using binary combinations of the first set of four binary sensors to produce the desired number. The numbers "10" (#250), "11" (#250), "12" (#250), "13" (#250) and "14" (#250) are used to produce the common math functions, where the binary number 10 chord produces the addition function "+"(#250), the binary number 11 chord produces the subtraction function "-"(#251), the binary number 12 chord produces the multiplication function "×"(#252), the binary number 13 chord produces the division function "÷"(#253) and the binary number 14 chord produces the equals function "="(#254).

FIG. 3F. is a table illustrating the manner in which binary number chords are produced. In order to enter or produce a number, the operator substantially simultaneously depresses or activates all four binary sensors (#)(9)(6)(3) of a second set of four binary sensors depressed or activated with the preferred digits the thumb, index, middle and ring digits of the preferred right second hand group and selects the desired binary number chord for entry with the first set of four binary sensors depressed or activated by the preferred left first hand group. An unused feature of the keyboard system and method according to the preferred embodiment is that the individual numbers are produced in reverse binary

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notation starting with the first preferred ring digit of the preferred left first hand group and ending with the eighth preferred thumb digit. If no binary sensor of the first left set of sensors is depressed or activated, then the number "0" (#240) is produced. Depression or activation of the far left first binary key or sensor (1) by the left ring digit enters produces the number "1" (#241), assuming, of course, that all of the binary sensors (#)(9)(6)(3) of the second preferred right set of four binary sensors are or has been substantially simultaneously depressed or activated. In this fashion it is possible to enter or produce the individual numbers "0" (#240) through "9" (#249) by the simultaneous binary chordic depression or activation of all of the four binary sensors of the second set of sensors along with the appropriate depression or activation of one or more binary sensors of the first set of sensors in a reverse binary fashion to produce the desired binary number. Exiting a number mode or any mode can be achieved by using the "shift out" (#175) function. The reason that a reverse binary fashion is chosen is that it is more common to read Latin based alphanumeric data from left to right in the same fashion that letters in words are read in the English language. This keeps the data entry system and method consistent in its format and is an easier way for people to learn to enter information using the system of data entry.

Common binary math function chords are illustrated in the

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table of FIG. 3G. The reverse binary equivalents of the numbers "10" (#250) through "14" (#254) are used, respectively, by the number "10" (#250) binary chord to represent or produce the addition "+" symbol or function, the number "11" (#251) binary chord to represent or produce the multiplication symbol or function, the number "12" (#252) binary chord to represent or produce the subtraction symbol or function, the number "13" (#253) binary chord to represent or produce the division "÷" symbol or function and the number "14" (#254) binary chord to represent or produce the equals "=" symbol or function.

Numbers are produced according to the table illustrated in FIG. 3F.

```
Activating (#)(9)(6)(3) produces "0"(#240), activating (1)(#)(9)(6)(3) produces "1"(#241), activating (4)(#)(9)(6)(3) produces "2"(#242), activating (1)(4)(#)(9)(6)(3) produces "3"(#243), activating (7)(#)(9)(6)(3) produces "4"(#244), activating (1)(7)(#)(9)(6)(3) produces "5"(#245), activating (4)(7)(#)(9)(6)(3) produces "6"(#246), activating (1)(4)(7)(#)(9)(6)(3) produces "6"(#247), activating (1)(4)(7)(#)(9)(6)(3) produces "7"(#247), activating (*)(#)(9)(6)(3) produces "8"(#248), and activating (1)(*)(#)(9)(6)(3) produces "9"(#249).
```

Common math functions are produced according to the table illustrated in FIG. 3G.

```
Activating (4) (*) (#) (9) (6) (3) produces "+" (#250), activating (1) (4) (*) (#) (9) (6) (3) produces "-" (#251), activating (7) (*) (#) (9) (6) (3) produces "×" (#252), activating (1) (7) (*) (#) (9) (6) (3) produces "÷" (#253), and
```

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activating (4)(7)(\*)(#)(9)(6)(3) produces "="(#254).

Activating at least one sensor of a first set of four sensors combined with the activation of all the sensors except one sensor of a second set of four sensors produces a function.

Fifteen functions are also obtainable. The system produces the numeric function by the simultaneous depression or activation of a second set of four binary sensors by a second group of four digits, the preferred index, middle and ring digits of the preferred right second hand group in simultaneous combination with the desired specific binary number chord with the four digits on the first group of four digits of the preferred left hand group. The preferred left first hand group digits enter or produce the specific chosen binary number chords between 0 and 9 in a reverse binary abacus chordic fashion with the preferred ring digit binary key or sensor of the preferred left first hand group producing the binary number "1" (#241), the preferred middle digit binary key or sensor producing the binary number "2" (#242), the preferred index digit binary key or sensor producing the binary number "4" (#244), the preferred thumb digit binary key or sensor producing the binary number "8" (#248), then using binary combinations of the first set of four binary sensors to produce the desired number.

In order to expand the utility of the system, it is

important to be able to choose from other function modes. Multifunction binary chord choices are produced according to the table illustrated in FIG. 3H. The multifunction binary chord mode choice is initiated or produced by the substantially simultaneous depression or activation of a second set of four binary sensors depressed or activated by the preferred index digit, middle digit and ring digit of the preferred right second hand group, in simultaneous combination with the appropriate reverse binary choice of chords on a second set of four binary sensors depressed or activated by the four digits of the preferred left first hand group. Up to 15 function mode choices are possible (F1-F15) given the fact that there are four binary sensors and 15 different distinct binary chordic combinations possible using four sensors, given the particular binary chordic choice. Note that the functions F1-F15 correspond one for one with the reverse binary number chosen while in the number mode by the four digits of the preferred left first hand group.

Functions are produced according to the table illustrated in FIG. 3H.

```
Activating (1)(9)(6)(3) produces "F1"(#225), activating (4)(9)(6)(3) produces "F2"(#226), activating (1)(4)(9)(6)(3) produces "F3"(#227), activating (7)(9)(6)(3) produces "F4"(#228), activating (1)(7)(9)(6)(3) produces "F5"(#229), activating (4)(7)(9)(6)(3) produces "F6"(#230), activating (1)(4)(7)(9)(6)(3) produces "F7"(#231), activating (*)(9)(6)(3) produces "F8"(#232),
```

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activating (1)(\*)(9)(6)(3) produces "F9"(#233), activating (4)(\*)(9)(6)(3) produces "F10"(#234), activating (1)(4)(\*)(9)(6)(3) produces "F11"(#235), activating (7)(\*)(9)(6)(3) produces "F12"(#236), activating (1)(7)(\*)(9)(6)(3) produces "F13"(#237), activating (4)(7)(\*)(9)(6)(3) produces "F14"(#238), and activating (1)(4)(7)(\*)(9)(6)(3) produces "F15"(#239).

The preferred input keyboard comprises eight binary sensors arranged in two sets of four binary sensors each. The first set of four binary sensors is preferably adapted for convenient ergonomic depression or activation by the preferred thumb, index, middle and ring digits on the four digits of a first group or preferred left hand. Similarly, the second set of four binary sensors is arranged for convenient ergonomic depression or activation by four digits of a second group by the preferred thumb, index, middle and ring digits on the four digits of a second group or preferred right hand. The two sets of four binary sensors are preferably arranged where each binary key or sensor is located directly beneath the finger tip of the activating digit, of an ergonomicly positioned hand, preferably in two ergonomicly correct mirror imaged pairs to best accommodate the natural ergonomicly relaxed hand position of the digits on the hands of a data entry keyboard operator. Alternatively, the two sets may be arranged in two vertical or horizontal mirror imaged rows of adjacent crescents. The keyboard can also mimic the layout of an 8-dot braille cell character arrangement which is shown in FIGS.4A-4C.

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The present invention also uses a split space bar keyboard as a data entry device where the fourth left binary bit has the numeric value of eight and is a left thumb sensor or a left space bar, and the fifth right binary bit has the numeric value of sixteen and is a right thumb sensor or a right space bar.

One preferred keyboard embodiment includes a first set of four sensors (1)(4)(7)(\*), preferably including a left space bar for activation by a left thumb and a second set of four sensors (#)(9)(6)(3), preferably including a right space bar for activation by a right thumb. The first set of four sensors (1)(4)(7)(\*) includes four binary sensors which are preferably adapted to be depressed or activated, respectively, by the preferred ring digit, middle digit, index digit and thumb digit on the left hand of the operator. Similarly, the second set of four sensors (#)(9)(6)(3), includes four binary sensors which are preferably adapted to be depressed or activated, respectively, by the preferred ring digit, middle digit, index digit and thumb digit on the right hand of the operator.

Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object in a first direction by activating a left sensor and moves an object in a second opposite direction by activating a right sensor.

Movement within a virtual reality environment can easily be obtained by using a left sensor and a right sensor. Movement

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for a robot or a machine can easily be obtained by using a left sensor and a right sensor. A computer mouse can be one preferred embodiment of the invention. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object to the left by activating a left sensor and moves an object to the right by activating a right sensor. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus rotates an object to the left by activating a left sensor and rotates an object to the right by activating a right sensor. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object backward by activating a left sensor and moves an object forward by activating a right sensor. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object forward by activating a left sensor and activating a right sensor simultaneously. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves an object backward by activating a left sensor and a right sensor simultaneously followed by activating a left sensor and a right sensor simultaneously.

The same logic can be used on a data entry device for a computer, typewriter or mouse. One preferred keyboard design would be the split space bar QWERTY keyboard. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus moves the cursor to the left activating a

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left sensor or left space bar and moves the cursor to the right by activating a right sensor or right space bar. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus deletes data to the left of the cursor by activating a left sensor or left space bar and deletes data to the right of the cursor by activating a right sensor or right space bar. Any apparatus for entering data on at least eight sensors or on any two sensor apparatus reverses the last change by activating a left sensor or left space bar and reverses the last undo by activating a right sensor or right space bar.

Any apparatus for entering data on at least eight sensors or on any two sensor apparatus exits a first data entry mode and enters a cursor movement mode by activating a left thumb sensor or left space bar and a right thumb sensor or right space bar simultaneously, followed by the activation of a left thumb sensor or left space bar moves the cursor to the left and activation of a right thumb sensor or right space bar moves a cursor to the right. Activating a left thumb sensor or left space bar and a right thumb sensor or right space bar simultaneously exits a cursor movement mode and enters a delete mode, followed by the activation of a left thumb sensor or left space bar deletes data to the left of a cursor and activating a right thumb sensor or right space bar deletes data to the right of a cursor. Activating a left thumb sensor or left space bar and a right thumb sensor or right space bar

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simultaneously exits a delete mode and re-enters a first data entry mode.

One preferred feature of the present invention uses at least eight sensors to produce secondary types of data by exiting a first mode and shifting into a second mode by the entry of at least one data character. The one data character can be a non-English lower-case letter, where the shift produces an non-English upper-case letter. The shift function is included in the eight bit code allowing the ability to use the shift for entering secondary data sets. Shifting into (#191) a secondary mode like the bold, italics, underline, etc. mode, is produced by entering the b, i, u, etc. Exiting a mode or any modes can be achieved by using the "shift out" (#175) function.

Because there are a total of eight binary sensors, it is possible to form a total of 255 binary chordic combinations (2×2×2×2×2×2×2 = 256). These combinations are summarized in the table illustrated in FIGS. 1A-1P. If activation of the shifting chord combination is employed, "Shift" (#191), it offers the potential of entering a secondary sets of 255 unassigned eight bit binary chord groups, which can be used for a multiplicity of modes, such as different types or sizes of fonts, bold mode, italics mode, underline mode, highlight mode, language scripts, country scripts or whatever extra mode is required, a feature which substantially expands the

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capability of the invention. The shift function is part of the eight sensor code. Since the shift function is not used to produce an upper-case vowel or consonant, combining it with an upper-case or lower-case vowel or consonant enters a secondary keyboard mode. Producing the shift function combined with a "b" and followed by the activation of the enter function enters the bold mode. Producing the shift function combined with a "i" and followed by the activation of the enter function enters the italics mode. Producing the shift function combined with a u" and followed by the activation of the enter function enters the underline mode. Producing the shift function combined with a "h" and followed by the activation of the enter function enters the highlight mode. Producing the shift function combined with any vowel, consonant, number, function, letters, numbers, etc. and preferably followed by the activation of the enter function enters a multiplicity of possible modes. Exiting a mode or any modes can be achieved by using the "shift out" (#175) function.

Another feature of the present invention uses at least eight sensors to produce secondary types of language script data sets by exiting a first mode and shifting into a second mode by entering the language code data character string to produce a secondary language script data set. Entering the country code data character string produces a secondary language script data set. Entering the country's area code data character string produces a secondary language script

data set. Exiting a mode or any modes can be achieved by using the "shift out" (#175) function.

Using the ISO Alpha-2 and Alpha-3 language codes as a way of assigning names to secondary eight bit data character sets, is one possible way of producing the secondary chordic combinations sets for any and all language alphabet scripts or character sets. Entry of the preferred Alpha-2 and Alpha-3 language codes exits the standard eight bit binary chordic data entry method mode, found in this patent application, and enters a secondary eight bit binary chordic data entry method mode set. Languages with extensive alphabet scripts or character sets, like Chinese, requires an eight bit binary data chord followed by an extra secondary eight bit binary data chord. Reassigning the present eight bit binary code invention arrangement, without departing from the spirit and scope of the invention as a whole, produces all language alphabet scripts or character sets.

```
for
      ab
          or
                   abk
                              Abkhazian
                        for
                   ace
                              Achinese
20
                        for
                              Acoli
                   ach
                   ada
                        for
                              Adangme
      om
          or
               gal/orm
                        for
                              Afan (Oromo)
                   aar
                        for
                              Afar
      aa
          or
                              Afrihili (Artificial language)
                   afh
                        for
25
      af
          or
                   afr
                        for
                              Afrikaans
                   afa
                        for
                              Afro-Asiatic (Other)
                        for
                   aka
                              Akan
                   akk
                        for
                              Akkadian
               alb/sqi
                              Albanian
      sq
          or
                        for
```

```
Aleut
                  ale
                       for
                            Algonquian languages
                  alg
                       for
                  ajm
                       for
                            Aljamia
                  tut
                       for
                            Altaic (Other)
 5
                            American, Central Indian (Other)
                  cai
                       for
                  nai
                       for
                            American Indian, North (Other)
                            American Indian, South (Other)
                  sai
                       for
                  amh
                       for
                            Amharic
      am
          or
                            Apache languages
                       for
                  apa
10
                       for
                            Arabic
      ar
          or
                  ara
                       for
                            Aramaic
                  arc
                       for
                            Arapaho
                  arp
                       for
                            Araucanian
                  arn
                            Aramaic, Samaritan
                       for
                  sam
arw
                       for
                            Arawak
              arm/hye
                       for
                            Armenian
      hy
                       for
                  art
                             Artificial (Other)
                            Asiatic, Afro- (Other)
                  afa
                       for
                  asm
                       for Assamese
      as
          or
                       for Athapascan languages
                  ath
                       for Australian languages
                  aus
                       for
                            Austronesian (Other)
                  map
                       for Avaric (Avar)
                  ava
                  ave
                       for Avestan
                       for Awandhi
                  awa
                             Aymara (Aymará)
                       for
      ay
          or
                  aym
                  aze
                        for
                             Azerbaijani
      az
          or
                       for
                             Aztec
                  nah
                  ban
                       for
                             Balinese
30
                  bat
                       for
                             Baltic (Other)
                  bal
                       for
                             Baluchi
                             Bambara
                  bam
                       for
                  bai
                        for
                             Bamileke languages
                  bad
                       for Banda
35
                  bnt
                       for
                             Bantu (Other)
                        for
                             Basa (Kru)
                  bas
                             Bashkir
                  bak
                        for
      ba
          or
      eu
          or
              baq/eus
                        for
                             Basque
```

			bej	for	Beja
			bel	for	Belorussian (Belarusian)
			bem	for	Bemba
5	bn	or	ben	for	Bengali (Bangla)
			ber	for	Berber languages
			bho	for	Bhojpuri
	dz			for	Bhutani
	bh	or	bih	for	Bihari
			bik	for	Bikol
10			bin	for	Bini
	bi	or	bis	for	Bislama
			nob	for	Bokmål, Norwegian
			bos	for	Bosnian
			bra	for	Braj
	br	or	bre	for	Breton
			bug	for	Buginese
	bg	or	bul	for	Bulgarian
			bua	for	Buriat
N	my	or	bur/mya	for	Burmese
20 11 11 7 11			bel	for	Burushaski
	be			for	Byelorussian
			cad	for	Caddo
	km	or	khm	for	Cambodian (Khmer)
Ŋ			car	for	Carib
25			spa	for	Castilian
	ca	or	cat	for	Catalan
			cau	for	Caucasian (Other)
			ceb	for	Cebuano
			cel	for	Celtic (Other)
30			cai	for	Central American Indian (Other)
			chg	for	Chagatai
			cmc	for	Chamic languages
			cha	for	Chamorro
			che	for	Chechen
35			chr	for	Cherokee
			chy	for	Cheyenne
			chb	for	Chibcha
			nya	for	Chichewa

```
for
                             Chinese
              chi/zho
      zh
          or
                        for
                             Chinook jargon
                  chn
                  chp
                        for
                             Chipewyan
                             Choctaw
                  cho
                        for
 5
                  chu
                        for
                             Church Slavic
                  chk
                        for Chuukese
                  chv
                        for Chuvash
                  cop
                        for
                             Coptic
                  cor
                        for
                             Cornish
10
                        for Corsican
      CO
          or
                  cos
                        for Cree
                  cre
                        for Creek
                  mus
                        for
                             Creoles and pidgins (Other)
                  crp
DEFIGER 201711
                        for Creoles and pidgins, English (Other)
                  сре
                             Creoles and pidgins, French (Other)
                  cpf
                        for
                             Creoles and pidgins, Portuguese (Other)
                  срр
                        for
                             Croatian (Serbo-Croatian)
              scr/hrv
                        for
      hr
          or
                        for
                             Cushitic (Other)
                  cus
      CS
          or
              ces/cze
                        for
                             Czech
                  dak
                        for Dakota
                  dan
                        for
                             Danish
      da
          or
                        for
                             Dayak
                  day
                  del
                        for
                             Delaware
                  din
                        for
                             Dinka
25
                  div
                        for
                             Divehi
                  doi
                        for
                             Dogri
                        for
                             Dogrib
                  dgr
                  dra
                        for
                             Dravidian (Other)
                  dua
                        for
                             Duala
30
              dut/nld
                        for
      nl
          or
                             Dutch
                  dum
                        for
                             Dutch, Middle (ca. 1050-1350)
                        for
                             Dyula
                  dyu
                  dzo
                        for
                             Dzongkha
                   efi
                        for
                             Efik
35
                             Egyptian (Ancient)
                   egy
                        for
                   eka
                        for
                             Ekajuk
                   elx
                        for
                             Elamite
                        for
                             English
      en
          or
                   eng
```

```
English (London docks dialect)
                        for
            en-cokney
                             English, Middle (1100-1500)
                        for
                   enm
                             English, Old (ca. 450-1100)
                        for
                   ang
                              English-based Creoles & pidgins (Other)
                   сре
                        for
 5
                   esk
                        for
                             Eskimo (Other)
               epo/esp
                        for
                             Esperanto
      eo
          or
                        for
                             Estonian
      et
                   est
          or
                   eth
                        for
                              Ethiopic
                              Ewe (Fon)
                   ewe
                        for
10
                        for
                             Ewondo
                   ewo
                   fan
                        for
                              Fang
                   fat
                        for Fanti
               fao/far
                        for
                              Faroese
      fo
          or
|≈$,
      fj
                   fij
                        for
                              Fijian (Fiji)
          or
15
      fi
                   fin
                        for
                              Finnish
          or
Finno-Ugrian (Other)
                   fiu
                        for
-5,
fon
                        for
                              Fon
               fra/fre
                        for
                              French
      fr
          or
                              French, Middel (ca. 1400-1600)
                   frm
                        for
207171
                              French, Old (ca. 842-1400)
                   fro
                        for
                              French-based Creoles and pidgins (Other)
                   cpf
                        for
      fy
                   fry
                        for
                              Frisian
          or
                   fur
                        for
                              Friulian
IJ
                   ful
                        for
                              Fulah
25
                   gaa
                        for
                             Ga (Gb)
                   gla
                        for
                              Gaelic
               gae/gdh
                        for Gaelic (Scots)
      gd
          or
      ql
                        for
                              Galician
                              Gallegan
               gag/glg
                        for
30
                   lug
                              Ganda
                        for
                        for
                              Gayo
                   gay
                        for
                              Geez
                   gez
      ka
          or
               geo/kat
                        for
                              Georgian
               deu/ger
      de
                        for
                              German
          or
35
                              German, Low
                   nds
                        for
                              German, Middle High (ca. 1050-1500)
                   qmh
                        for
                              German, Old High (ca. 750-1050)
                   qoh
                        for
                              Germanic (Other)
                   gem
                        for
```

```
kik
                         for
                              Gikuyu
                              Gilbertese
                    gil
                         for
                    gon
                         for
                              Gondi
                         for
                              Gorontalo
                    gor
 5
                              Gothic
                    got
                         for
                    grb
                         for
                              Grebo
                               Greek, Ancient (to 1453)
      el
                    grc
                         for
           or
                               Greek, Modern (1453-)
               ell/gre
                         for
       kl
                    kal
                         for
                               Greenlandic
           or
10
               gua/grn
                         for
                               Guarani (Guarani)
      gn
           or
      gu
                    guj
                         for
                               Gujarati
           or
                    qwi
                         for
                              Gwich'in
                    hai
                         for
                               Haida
                  i-hak
                         for
                              Hakka
151714520507070
      ha
           or
                    hau
                         for
                               Hausa
                               Hawaiian
                    haw
                         for
                         for
                               Hebrew
                    heb
      he
           or
                    her
                         for
                               Herero
                    hil
                         for
                               Hiligaynon
                    him
                         for
                               Himachali
                    hin
                         for
                               Hindi
      hi
           or
                    hmo
                         for
                              Hiri Motu
                    hit
                         for Hittite
                    hun
                         for
                               Hungarian
      hu
           or
                    hup
                         for
                               Hupa
                    iba
                         for
                               Iban
                               Icelandic
               ice/isl
                         for
       is
           or
                    ibo
                         for
                               Iqbo
                               Ijo
                    ijo
                         for
30
                    ilo
                         for
                               Iloko
                    nai
                         for
                               Indian, North American (Other)
                         for
                               Indian, Central American (Other)
                    cai
                               Indian, South American (Other)
                         for
                    sai
                         for
                               Indic (Other)
                    inc
35
                               Indo-European (Other)
                    ine
                         for
                               Indonesian
                    ind
                         for
               int/ina
                         for
                               Interlingua (Int. Auxilary Lang. Assoc.)
       ia
           or
                    ile
                         for
                               Interlingue
       ie
           or
```

```
for
                               Inuktitut (Eskimo)
                    iku
      iu
           or
                         for
                               Inupiak (Inupiag)
      ik
                    ipk
           or
                               Iranian (Other)
                    ira
                         for
                               Irish
               iri/gai
                         for
      qa
           or
 5
                         for
                               Irish
                    gle
                   mga
                         for
                               Irish, Middle (900-1200)
                         for
                               Irish, Old (to 900)
                    sga
                    iro
                         for
                               Iroquoian languages
      it
                    ita
                         for
                               Italian
           or
10
      jа
                    jpn
                         for
                               Japanese
           or
      jν
           or
               jav/jaw
                         for
                               Javanese
                    jrb
                         for
                               Judeo-Arabic
                               Judeo-Persian
                    jpr
                         for
                    kab
                         for
                               Kabyle
15071UE201E171E25
                    kac
                         for
                               Kachin
                         for
                               Kalaallisut
                    kal
                         for
                               Kamba
                    kam
                         for
                               Kannada
       kn
           or
                    kan
                    kau
                         for
                               Kanuri
                         for
                               Kara-Kalpak
                    kaa
                         for
                               Karen
                    kar
                         for
                               Kashmiri
       ks
                    kas
           or
                               Kawi
                         for
                    kaw
                         for
                               Kazakh
       kk
                    kaz
           or
                    kha
                         for
                               Khasi
               cam/khm
                         for
                               Khmer (Cambodian)
       km
           or
                    khi
                         for
                               Khoisan (Other)
                    kho
                         for
                               Khotanese
                    kik
                         for
                               Kikuyu
30
                    kmb
                         for
                               Kimbundu
                    kin
                         for
                               Kinyarwanda
       rw
           or
                    kir
                         for
                               Kirghiz
                         for
                               Kirgiz
       ky
             x-klingon
                         for
                               Klingon(Star Trek)
35
                               Khmer (Cambodian)
                    khm
                         for
                               Khmer, Mon-Khmer (Other)
                    mkh
                         for
                    kon
                         for
                               Kongo
                    kok
                         for
                               Konkani
```

```
kor
                        for
                              Korean
      ko
          or
                        for
                   kos
                              Kosraean
                        for
                   kpe
                              Kpelle
                   kro
                         for
                              Kru
 5
                         for
                              Kuanyama
                   kua
                   kum
                        for
                              Kumyk
                   kur
                         for
                              Kurdish
      ku
           or
                   kru
                        for
                              Kurukh
                   kus
                         for
                              Kusaie
10
                   kut
                        for Kutenai
                   lad
                        for Ladino
                   lah
                         for Lahnda
                   lam
                         for
                              Lamba
               lan/oci
                         for
                              Langue d'oc (post 1500)
1110, 7 1 6 1 1 2 0 1 1 1 2 5
                   lao
                         for
                              Lao
                         for
                              Laothian
      10
                   lap
                         for
                              Lapp languages (Lappish)
                         for
                              Latin
                   lat
      la
           or
                   lav
                         for Latvian
      lv
           or
                   ltz
                         for
                              Letzeburgesch
                         for Lezghian
                   lez
                   lin
                         for Lingala
      ln
           or
                   lit
                         for Lithuania (Lithuanian)
      lt
           or
                   nds
                         for Low German
                         for Low Saxon
                   nds
                   loz
                         for Lozi
                   lub
                         for Luba-Katanga
                         for Luba-Lulua
                   lua
                   lui
                         for Luiseno
30
                         for Lunda
                   lun
                   luo
                         for Luo (Kenya and Tanzania)
                         for Lushai
                   lus
                         for
                              Macedonian
      mk
               mac/mke
           or
                        for Madurese
                   mad
35
                              Magahi
                   mag
                         for
                              Maithili
                   mai
                         for
                   mak
                         for
                              Makasar
                   mlq
                         for
                              Malagasy
      mg
           or
```

```
for
                                                                                                             Malay
                                                       may/msa
                                        or
                        ms
                                                                                          for
                                                                                                             Malayalam
                        ml
                                                                      mal
                                        or
                                                                      mlt
                                                                                          for
                                                                                                             Maltese
                        mt
                                        or
                                                                      mdr
                                                                                          for
                                                                                                             Mandar
     5
                                                                      man
                                                                                          for
                                                                                                             Mandingo
                                                                      mni
                                                                                          for
                                                                                                             Manipuri
                                                                                          for
                                                                                                             Manobo languages
                                                                      mno
                                                                                          for
                                                                                                             Manx
                                                                      max
                        mi
                                                       mao/mri
                                                                                          for
                                                                                                             Maori
                                        or
 10
                                                                      mar
                                                                                          for
                                                                                                             Marathi
                        mr
                                        or
                                                                      mah
                                                                                          for
                                                                                                             Marshall (Marshallese)
                                                                                          for
                                                                                                             Marwari
                                                                      mwr
                                                                      mas
                                                                                          for
                                                                                                             Masai
                                                                      myn
                                                                                          for
                                                                                                             Mayan languages
14) Live of the last of the la
                                                                                                             Mende
                                                                      men
                                                                                          for
                                                                      mic
                                                                                          for
                                                                                                             Micmac
                                                                      min
                                                                                          for
                                                                                                             Minangkabau
                                                        i-mingo
                                                                                          for
                                                                                                             Mingo
                                                                                                             Miscellaneous languages
                                                                      mis
                                                                                          for
                                                                      moh
                                                                                          for
                                                                                                             Mohawk
                                                                      mol
                                                                                          for
                                                                                                             Moldavian
                        mo
                                        or
                                                                                          for
                                                                                                             Mon-Khmer (Other)
                                                                      mkh
                                                                                          for
                                                                       lol
                                                                                                             Mongo
                                                                                          for
                                                                                                              Mongolian
                                                                      mon
                        mn
                                        or
                                                                      mos
                                                                                          for
                                                                                                             Mossi
                                                                      mul
                                                                                          for
                                                                                                             Multiple languages
                                                                                          for
                                                                                                             Munda languages
                                                                      mun
                                                                       nau
                                                                                          for
                                                                                                             Nauru
                                        or
                        na
                                                                                          for
                                                                                                             Navajo
                                                                       nav
 30
                                                    i-navaho
                                                                                          for
                                                                                                              Navajo
                                                                      nde
                                                                                          for
                                                                                                             Ndebele (Zimbabwe)
                                                                      nde
                                                                                          for
                                                                                                             Ndebele, North
                                                                      nbl
                                                                                          for
                                                                                                              Ndebele, South
                                                                      ndo
                                                                                          for
                                                                                                             Ndonga
 35
                                                                                                              Nepali
                                                                      nep
                                                                                          for
                        ne
                                       or
                                                                                                             Newari
                                                                      new
                                                                                          for
                                                                      nai
                                                                                          for
                                                                                                             Nias
                                                                      nic
                                                                                          for
                                                                                                              Niger-Kordofanian (Other)
```

```
Nilo-Saharan (Other)
                   ssa for
                  niu
                        for
                             Niuean
                             Norse, Old
                        for
                  non
                             North American Indian (Other)
                        for
                   nai
 5
                             Northern Sami
                        for
                   sme
                        for
                             Northern Sohto
                   nso
                        for
                             Norwegian
                   nor
      no
          or
                             Norwegian Bokmål
                   nob
                        for
                             Norwegian Nynorsk
                   nno
                        for
                             Norwegian "BookLanugage"
10
                no-bok
                        for
                             Norwegian "New Norwegian"
                no-nyn
                        for
                        for
                             Nubian languages
                   nub
                   nym
                        for
                             Nyamwezi
                        for
                             Nyasa-Tonga
                   tog
nya
                        for
                             Nyanja
                   nyn
                        for
                             Nyankole
                   nyo
                        for
                             Nyoro
                   nzi
                             Nzima
                        for
      oc
          or
                   oci
                        for
                             Occitan
                   oji
                        for
                             Ojibwa
                        for
                             Old Norse
                   non
                        for
                             Old Persian (ca. 600-400 B.C.)
                   peo
                   ori
                        for Oriya
      or
          or
               gal/orm
                        for
                             Oromo
      om
          or
                        for
                             Osage
                   osa
                             Ossetic (Ossetian)
                        for
                   oss
                             Otomian languages
                   oto
                        for
                        for
                             Ottoman-Turkish
                   ota
                        for
                            Pahlavi
                   pal
30
                   pau
                        for
                            Palauan
                        for
                             Pali
                   pli
                        for
                             Pampanga
                   pam
                   pag
                        for
                             Pangasinan
                        for
                             Panjabi
                   pan
35
                        for
                             Papiamento
                   pap
                        for
                             Papuan-Australian (Other)
                   paa
                        for
                             Pashto (Pushto)
      ps
                        for
      fa
              per/fas
                             Persian (Farsi)
          or
```

```
Persian, Old (ca. 600-400 B.C.)
                        for
                  peo
                   phi
                        for
                             Philippine (Other)
                   phn
                        for
                             Phoenician
                        for
                             Pohnpeian
                   pon
 5
                             Polish
                   pol
                        for
      pl
          or
                   pon
                        for
                             Ponape
          or
                        for
                             Portuguese
      pt
                   por
                             Portuguese-based Creoles and pidgins
                   срр
                        for
                        for
                             Prakrit languages
                   pra
10
                   oci
                        for
                             Provençal
                   pro
                        for
                             Provencal, Old (to 1500)
                        for
                             Punjabi
      pa
                        for
                             Pushto (Pashto)
      ps
          or
                   pus
      qu
                   que
                        for
                             Ouechua
          or
raj
                        for
                             Rajasthani
                   rap
                        for
                             Rapanui
                        for
                   rar
                             Rarotongan
                             Reserved for local user
                        for
              qaa-qtz
      rm
          or
                   roh
                        for
                             Rhaeto-Romance
20
                   roa
                        for
                             Romance (Other)
              ron/rum
                        for
                             Romanian
          or
ro
                   rom
                        for
                             Romany
                        for
                             Rundi
                   run
                             Russian
                        for
      ru
          or
                   rus
25
                             Rwanda, Kinya
                        for
      rw
                             Saharan, Nilo-Saharan (Other)
                        for
                   ssa
                        for
                             Salishan languages
                   sal
                   sam
                        for
                             Samaritan Aramaic
            i-sami-no
                        for
                             Sami, North (Norway)
30
                   smi
                        for
                             Sami languages (Other)
              sao/smo
                        for
                             Samoan
      sm
          or
                        for
                             Sandawe
                   sad
                        for
                             Sangho (Sango)
      sg
          or
                   sag
                        for
                             Sanskrit
                   san
      sa
          or
35
                        for
                             Santali
                   sat
                        for
                             Sardinian
                   srd
                   sas
                        for
                             Sasak
                   nds
                        for
                             Saxon, Low
```

```
sco
                         for
                              Scots
                              Scots Gaelic
               gae/gdh
                         for
      ad
           or
                   gla
                         for
                              Scottish Gaelic
                   sel
                         for
                              Selkup
 5
                              Semitic (Other)
                         for
                   sem
                         for
                              Serbian
      sr
                         for
                              Serbo-Croatian (Cyrillic)
                   scc
                         for
                              Serbo-Croatian (Roman)
      sh
                   scr
                         for
                              Serer
                   srr
10
                         for
                              Sesotho
      st
                         for
                              Setswana
      tn
                   shn
                         for
                              Shan
               sho/sna
                         for
                              Shona
      sn
           or
                   sid
                         for
                              Sidamo
1071052 OFU OF 15
                   sgn
                         for
                              Sign languages
                   bla
                              Siksika
                         for
                   snd
                         for
                              Sindhi
      sd
           or
      si
                   sin
                         for
                              Singhalese
           or
                   snh
                         for
                              Sinhalese
                   sit
                              Sino-Tibetan (Other)
                         for
                   sio
                         for
                              Siouan languages
                         for
                              Siswati
      SS
                   den
                         for
                              Slave (Athapascan)
                              Slavic, Church
                   chu
                         for
                   sla
                         for
                              Slavic (Other)
               slk/slo
                         for
                              Slovak
      sk
           or
                         for
                              Slovenian
      sl
                   slv
           or
                         for
                              Sogdian
                   sog
                              Somali
                   som
                         for
      so
           or
30
                         for
                              Songhai
                   son
                   snk
                         for
                              Soninke
                         for
                   wen
                              Sorbian languages
                         for
                              Sotho, Northern
                   nso
                              Sotho, Southern
                   sot
                         for
35
                         for
                              Sotho
                   sso
                   sai
                         for
                              South American Indian (Other)
               esl/spa
                              Spanish
                         for
      es
          or
                   suk
                         for
                              Sukuma
```

```
for
                               Sumerian
                    sux
                         for
                               Sundanese
                    sun
      su
           or
                    sus
                         for
                               Susu
                               Swahili
                    swa
                         for
       sw
           or
 5
                         for
                               Swati
                    ssw
                    SWZ
                         for
                               Swazi
               sve/swe
                         for
                               Swedish
      sv
           or
                               Syriac
                         for
                    syr
      t1
               tag/tgl
                         for
                               Tagalog
           or
10
                               Tahitian
                    tah
                         for
                    tai
                         for
                               Tai (Other)
                    hai
                         for
                               Taiwan (Hakka)
                  i-tsu
                         for
                               Taiwan (Tsou)
047195 200762
      tg
           or
               taj/tgk
                         for
                               Tajik
                               Tamashek
                    tmh
                         for
           or
                    tam
                         for
                               Tamil
      ta
               tar/tat
                         for
                               Tatar
      tt
           or
                    tel
                         for
                               Teluqu
      te
           or
                    ter
                         for
                               Tereno
                         for
                               Tetum
                    tet
                    tha
                         for
                               Thai
      th
           or
               bod/tib
      bo
           or
                         for
                               Tibetan
                    sit
                         for
                               Tibetan, Sino-Tibetan (Other)
                    tiq
                         for
                               Tigre
25
      ti
           or
                    tir
                         for
                               Tigrinya
                               Timne
                    tem
                         for
                    tiv
                         for
                               Tivi
                    tli
                         for
                               Tlingit
                         for
                               Tok Pisin
                    tpi
30
                    tkl
                         for
                               Tokelau
                         for
                               Tonga
      to
                    tog
                         for
                               Tonga (Nyasa)
                               Tonga (Tonga Islands)
                    ton
                         for
                    tru
                         for
                               Truk
35
                    tsi
                         for
                               Tsimshian
      ts
           or
                    tso
                         for
                               Tsonga
                  i-tsu
                               Tsou (Taiwan)
                         for
               tsw/tsn
                         for
                               Tswana
```

```
for
                               Tumbuka
                    tum
                               Turkish
      tr
                    tur
                         for
           or
                         for
                               Turkish, Ottoman (1500-1928)
                    ota
      tk
                    tuk
                         for
                               Turkmen
           or
 5
                         for
                               Tuvalu
                    tvl
                               Tuvinian
                    tyv
                         for
                         for
                               Twi
                    twi
      tw
           or
                    uga
                         for
                               Ugaritic
                               Uighur
                         for
                    uiq
10
                         for
                               Uigur
      uq
                    ukr
                         for
                               Ukrainian
      uk
           or
                               Umbundu
                    umb
                         for
                    und
                         for
                               Undetermined
urd
                         for
                               Urdu
      ur
           or
                    uzb
                         for
                               Uzbek
      uz
           or
                    vai
                         for
                               Vai
                    ven
                         for
                               Venda
                               Vietnamese
      vi
                    vie
                         for
           or
      vo
           or
                    vol
                         for
                               Volapuk (Volapük)
                         for
                               Votic
                    vot
                               Wakashan languages
                    wak
                         for
                    wal
                         for
                               Walamo
                         for
                    war
                               Waray
                    was
                         for
                               Washo
25
               cym/wel
                         for
                               Welsh
      СУ
           or
                               Wolof
                    wol
                         for
      wo
           or
      xh
                    xho
                         for
                               Xhosa
           or
                    sah
                         for
                               Yakut
                         for
                               Yao
                    yao
30
                         for
                               Yap (Yapese)
                    yap
                               Yiddish
                    yid
                         for
      уi
           or
                               Yoruba
      yo
           or
                    yor
                         for
                         for
                               Yupik languages
                    ypk
                               Zande
                    znd
                         for
35
                         for
                               Zapotec
                    zap
                         for
                               Zenaga
                    zen
                         for
                               Zhuang
                    zha
      za
           or
      zu
                    zul
                         for
                               Zulu
           or
```

AT

or

5

## zun for Zuni

Using the ISO Alpha-2 and Alpha-3 country codes as a way of assigning names to secondary eight bit data character sets, is one possible way of producing the secondary chordic combinations sets for any and all language alphabet scripts or character sets. Entry of the preferred Alpha-2 and Alpha-3 country codes exits the standard eight bit binary chordic data entry method mode, found in this patent application, and enters a secondary eight bit binary chordic data entry method mode set. Languages with extensive alphabet scripts or character sets, like Chinese, requires an eight bit binary data chord followed by an extra secondary eight bit binary data chord. Reassigning the present eight bit binary code invention arrangement, without departing from the spirit and scope of the invention as a whole, produces all language alphabet scripts or character sets.

```
AF
          or
               AFG
                    for
                          Afghanistan
      AL
               ALB
                    for
                          Albania
          or
                    for
                          Algeria
      DZ
          or
               DZA
20
      AS
               ASM
                    for
                          American Samoa
          or
                    for
      ΑD
          or
               AND
                          Andorra
      ΑO
               AGO
                    for
                          Angola
          or
      ΑI
               AIA
                    for
                          Anguilla
          or
      AO
                    for
                          Antartica
25
      AG
                    for
                          Antiqua and Barbuda
          or
               ATG
                    for
                          Argentina
      AR
          or
               ARG
      MΑ
               ARM
                    for
                          Armenia
          or
                    for
      ΑW
          or
               ABW
                          Aruba
      ΑU
               AUS
                    for
                          Australia
          or
```

for

Austria

TUA

```
for
                          Azerbaijan
      AZ
               AZE
          or
      BS
               BHS
                    for
                          Bahamas
          or
      BH
               BHR
                    for
                          Bahrain
          or
                          Bangladesh
      BD
          or
               BGD
                    for
 5
      BB
               BRB
                    for
                          Barbados
          or
               BLR
                    for
                          Belarus
      ΒY
           or
      BE
               BEL
                    for
                          Belgium
           or
      BZ
           or
               BLZ
                    for
                          Belize
                    for
                          Benin
      ВJ
           or
               BEN
10
               BMU
                    for
                          Bermuda
      BM
          or
      BT
               BTN
                    for
                          Bhutan
           or
      во
               BOL
                    for
                          Bolivia
          or
      BA
               BIH
                    for
                          Bosnia and Herzegovina
           or
      BW
               BWA
                    for
                          Botswana
          or
Postala aloro
      ΒV
                     for
                          Bouvet Island
      BR
          or
               BRA
                    for
                          Brazil
                     for
                          British Indian Ocean Territory
      IO
                     for
                          British Virgin Islands
      VG
          or
               VGB
      BN
          or
               BRN
                    for
                          Brunei Darussalam
      BG
               BGR
                    for
                          Bulgaria
          or
                          Burkina Faso
      BF
               BFA
                    for
           or
      ΒI
               BDI
                     for
                          Burundi
           or
                          Cambodia
      KH
               KHM
                    for
           or
      CM
               CMR
                    for
                          Cameroon
          or
25
      CA
               CAN
                    for
                          Canada
          or
      CV
               CPV
                     for
                          Cape Verde
           or
      ΚY
                    for
                          Cayman Islands
           or
               CYM
      CF
               CAF
                     for
                          Central African Republic
           or
      TD
               TCD
                    for
                          Chad
          or
30
                          Chile
      CL
           or
               CHL
                    for
      CN
               CHN
                     for
                          China
           or
                          HongKong Special Administrative
      HK
               HKG
                     for
           or
                          Macao Special Administrative Region of China
               MAC
                     for
      CX
                          Christmas Island
                     for
35
      CC
                     for
                          Cocos (Keeling) Islands
      CO
          or
               COL
                    for
                          Colombia
                     for
      KM
               COM
                          Comoros
           or
      CG
               COG
                     for
           or
                          Congo
```

```
Congo, The Democratic Republic of
                                               COD
                                                               for
                    CD
                                 or
                                               COK
                                                               for
                                                                                Cook Islands
                    CK
                                 or
                    CR
                                               CRI
                                                                for
                                                                                 Costa Rica
                                 or
                                                                                 Côte d'Ivoire
                    CI
                                               CIV
                                                                for
                                 or
   5
                                                                                Croatia
                    HR
                                               HRV
                                                                for
                                 or
                    CU
                                               CUB
                                                               for
                                                                                 Cuba
                                 or
                    CY
                                               CYP
                                                               for
                                                                                 Cyprus
                                 or
                    CZ
                                                                for
                                                                                 Czech Republic
                                  or
                                               CZE
                    ΚP
                                               PRK
                                                                for
                                                                                 Democratic People's Republic of Korea
                                  or
10
                    CD
                                               COD
                                                                for
                                                                                 Democratic Republic of the Congo
                                 or
                    DK
                                  or
                                               DNK
                                                                for
                                                                                 Denmark
                    DJ
                                               DJI
                                                                for
                                                                                 Djibouti
                                  or
                    DM
                                               DMA
                                                                for
                                                                                 Dominica
                                  or
                    DO
                                 or
                                               DOM
                                                               for
                                                                                 Dominican Republic
15
                    TΡ
                                  or
                                               TMP
                                                                for
                                                                                 East Timor
The fact that the fact that the fact the fact that the fac
                    EC
                                  or
                                               ECU
                                                               for
                                                                                 Ecuador
                    EG
                                  or
                                               EGY
                                                                for
                                                                                 Egypt
                    SV
                                                                for
                                                                                 El Salvador
                                  or
                                               SLV
                    GQ
                                 or
                                               GNQ
                                                                for
                                                                                 Equatorial Guinea
                    ER
                                               ERI
                                                                for
                                                                                 Eritrea
                                  or
                                                                for
                    EE
                                               EST
                                                                                 Estonia
                                 or
                    ET
                                               ETH
                                                                for
                                                                                 Ethiopia
                                  or
                                               FRO
                                                               for
                                                                                 Færoe Islands
                     FO
                                  or
                                                                                 Falkland Islands (Malvinas)
                     FΚ
                                               FLK
                                                                for
                                  or
 25
                     FJ
                                               FJI
                                                                for
                                                                                 Fiji
                                  or
                     FΙ
                                               FIN
                                                                for
                                                                                 Finland
                                  or
                    FR
                                               FRA
                                                               for
                                                                                 France
                                  or
                    GF
                                               GUF
                                                                for
                                                                                 French Guiana
                                  or
                                                                                 French Polynesia
                    PF
                                               PYF
                                                                for
                                  or
 30
                                                                for
                                                                                 French Southern Territories
                    TF
                    GΑ
                                               GAB
                                                                for
                                                                                 Gabon
                                  or
                    GM
                                               GMB
                                                               for
                                                                                 Gambia
                                  or
                    GE
                                               GEO
                                                                for
                                                                                 Georgia
                                  or
                     DE
                                               DEU
                                                              for
                                                                                 Germany
                                  or
 35
                    GH
                                               GHA
                                                                for
                                  or
                                                                                 Ghana
                    GΙ
                                  or
                                               GIB
                                                                for
                                                                                 Gibraltar
```

GR

 $\operatorname{GL}$ 

or

or

for

for

Greece

Greenland

**GRC** 

GRL

```
Grenada
      GD
               GRD
                    for
          or
      GP
               GLP
                    for
                          Guadeloupe
           or
      GU
               GUM
                    for
                          Guam
           or
               GTM
                    for
                          Guatemala
      GT
           or
 5
      GN
               GIN
                    for
                          Guinea
           or
      GW
               GNB
                    for
                          Guinea-Bissau
           or
      GY
               GUY
                    for
                          Guyana
           or
                          Haiti
      HT
           or
               HTI
                     for
      MH
                     for
                          Heard Island and McDonald Islands
10
      ΑV
               VAT
                     for
                          Holy See (see Vatican City State)
           or
      ΗN
           or
               HND
                     for
                          Honduras
               HKG
                          Hong Kong
      ΗK
           or
                     for
      HU
               HUN
                     for
                          Hungary
           or
      IS
           or
               ISL
                    for
                          Iceland
IN
           or
               IND
                    for
                          India
      ID
           or
               IDN
                    for
                          Indonesia
      IR
           or
               IRN
                     for
                          Iran (Islamic Republic of)
                     for
      IQ
           or
               IRO
      ΙE
           or
               IRL
                    for
                          Ireland
      IL
               ISR
                    for
                          Israel
           or
      IT
               ITA
                    for
           or
                          Italy
      JM
               JAM
                     for
                          Jamaica
           or
      JΡ
               JPN
                    for
                          Japan
           or
                     for
      JO
           or
               JOr
                          Jordan
      ΚZ
               KAZ
                    for
                          Kazakhstan
           or
      ΚE
               KEN
                     for
                          Kenya
           or
      ΚI
           or
               KIR
                    for
                          Kiribati
      ΚP
                          Korea, Democratic People's Republic of
               PRK
                     for
           or
      KR
                     for
                          Korea, Republic of
           or
               KOr
30
      KW
           or
               KWT
                     for
                          Kuwait
      KG
               KGZ
                     for
                          Kyrgyzstan
           or
      LA
               LAO
                     for
                          Lao People's Democratic Republic
           or
      LV
               LVA
                     for
                          Latvia
           or
      LB
                    for
                          Lebanon
           or
               LBN
35
      LS
               LSO
                    for
                          Lesotho
           or
      LR
           or
               LBR
                    for Liberia
      LY
                          Libyan Arab Jamahiriya
               LBY
                     for
           or
      LI
               LIE
                     for
                          Liechtenstein
           or
```

```
LTU
                                                               for
                                                                                Lithuania
                   LT
                                 or
                   LU
                                              LUX
                                                               for
                                                                                Luxembourg
                                 or
                   MO
                                                                for
                                                                                Macau
                   MK
                                                               for
                                                                                Macedonia, The former Yugoslav Republic of
                                 or
                                              MKD
    5
                   MG
                                              MDG
                                                               for
                                                                                Madagascar
                                 or
                   MW
                                              IWM
                                                               for
                                                                                Malawi
                                 or
                   ΥM
                                                               for
                                              MYS
                                                                                Malaysia
                                 or
                   MV
                                                               for
                                 or
                                              MDV
                                                                                Maldives
                   ML
                                                               for
                                                                                Mali
                                 or
                                              MLI
 10
                   TM
                                              MLT
                                                               for
                                                                                Malta
                                 or
                   MН
                                 or
                                              MHL
                                                               for
                                                                                Marshall Islands
                    MQ
                                              QTM
                                                              for
                                                                                Martinique
                                 or
                    MR
                                              MRT
                                                               for
                                                                                Mauritania
                                 or
                    MU
                                 or
                                              MUS
                                                               for
                                                                                Mauritius
15
                    YT
                                                                for
                                                                                Mayotte
The fact that the fact the Course that the first the fact the fact
                    MΧ
                                                               for
                                 or
                                              MEX
                                                                                Mexico
                    FM
                                                               for
                                                                                Micronesia, Federated States of
                                 or
                                              FSM
                   MD
                                              MDA
                                                               for
                                                                                Moldova, Republic of
                                 or
                    MC
                                 or
                                              MCO
                                                               for
                                                                                Monaco
                                                               for
                    MN
                                 or
                                              MNG
                                                                                Mongolia
                                                                                Montserrat
                   MS
                                              MSR
                                                               for
                                 or
                   MA
                                 or
                                              MAR
                                                               for
                                                                                Morocco
                    ΜZ
                                              MOZ
                                                               for Mozambique
                                 or
                    MM
                                              MMR
                                                               for
                                                                                Myanmar
                                 or
25
                    NA
                                 or
                                              MAN
                                                              for
                                                                                Namibia
                                                               for
                   NR
                                              NRU
                                                                                Nauru
                                 or
                   NP
                                              NPL
                                                               for
                                 or
                                                                                Nepal
                   NL
                                              NLD
                                                               for
                                                                                Netherlands
                                 or
                   AN
                                 or
                                              ANT
                                                               for
                                                                                Netherlands Antilles
30
                                                               for
                                                                                New Caledonia
                   NC
                                              NCL
                                 or
                   NZ
                                 or
                                              NZL
                                                               for
                                                                                New Zealand
                   NI
                                              NIC
                                                               for
                                 or
                                                                                Nicaragua
                   NE
                                              NER
                                                               for
                                 or
                                                                                Niger
                   NG
                                              NGA
                                                               for
                                 or
                                                                                Nigeria
35
                   NU
                                              NIU
                                                               for
                                                                                Niue
                                 or
                                                                                Norfolk Island
                    NF
                                 or
                                              NFK
                                                               for
                   MΡ
                                              MNP
                                                                for
                                                                                Northern Mariana Islands
                                 or
                    NO
                                 or
                                              Nor
                                                                for
                                                                                Norway
```

ď

```
for
               OMN
                         Oman
      MO
          or
      PΚ
                    for
                          Pakistan
               PAK
          or
      PW
               PLW
                   for
                          Palau
          or
      PS
               PSE
                    for
                          Palestinian Occupied Territory
          or
 5
      PA
          or
               PAN
                    for
                          Panama
      PG
          or
               PNG
                    for
                          Papua New Guinea
      PY
               PRY
                    for
          or
                          Paraguay
      PE
               PER
                    for
                          Peru
          or
      PΗ
               PHL
                    for
                          Philippines
          or
10
      PN
          or
               PCN
                    for
                          Pitcairn
      PL
          or
               POL
                    for
                         Poland
                          Portugal
      PT
          or
               PRT
                    for
      PR
               PRI
                    for
                          Puerto Rico
          or
      QΆ
          or
               TAQ
                    for
                         Oatar
1510719150 OPO7025
                    for
                          Republic of Korea
      KR
          or
               KOr
      MD
               MDA
                    for
                         Republic of Moldova
          or
      RE
               REU
                    for
                         Réunion
          or
                    for
                         Romania
      RO
          or
               ROM
               RUS
                    for
                          Russian Federation
      RU
          or
      RW
               RWA
                    for
                          Rwanda
          or
                    for
                          Saint Helena
      SH
          or
               SHN
                          Saint Kitts and Nevis
      KN
               KNA
                    for
          or
      LC
               LCA
                    for
                          Saint Lucia
          or
                          Saint Pierre and Miquelon
      PM
               SPM
                    for
          or
                          Saint Vincent and the Grenadines
      VC
          or
               VCT
                    for
      WS
               WSM
                    for
                          Samoa
          or
                          San Marino
      SM
               SMR
                    for
          or
      ST
                    for
          or
               STP
                          Sao Tome and Principe
      SA
                    for
                          Saudi Arabia
               SAU
          or
30
      SN
               SEN
                    for
                          Senegal
          or
      SC
          or
               SYC
                    for
                          Sevchelles
                          Sierra Leone
      SL
          or
               SLE
                    for
      SG
               SGP
                    for
                          Singapore
          or
      SK
          or
               SVK
                    for
                          Slovakia
35
      SI
               SVN
                    for
                          Slovenia
          or
                          Solomon Islands
      SB
               SLB
                    for
          or
      SO
          or
               SOM
                    for
                          Somalia
                         South Africa
      ZA
               ZAF
                    for
          or
```

```
GS
                   for
                         South Georgia & the South Sandwich Islands
      ES
                   for
              ESP
                         Spain
          or
                         Sri Lanka
      LK
              LKA
                   for
          or
              SDN
                   for
                         Sudan
      SD
          or
 5
      SR
              SUR for
                         Suriname
          or
      SJ
              SJM
                   for
                         Svalbard and Jan Mayen Islands
          or
                   for
                         Swaziland
      SZ
              SWZ
          or
              SWE
                   for
                         Sweden
      SE
          or
      CH
                   for
                         Switzerland
          or
              CHE
10
      SY
              SYR
                  for
                         Syrian Arab Republic
          or
                         Taiwan, Province of China
      TW
          or
              TWN
                   for
      ΤJ
              TJK for
                         Tajikistan
          or
      TZ
              TZA
                   for
                         Tanzania, United Republic of
          or
      TH
          or
              THA for
                         Thailand
ADD71950 DED7
      MK
          or
              MKD
                   for
                         The
                              former Yugoslav Republic of Macedonia
      TG
          or
              TGO
                   for
                         Togo
                   for
      ΤK
          or
              TKL
                         Tokelau
                   for
      TO
          or
              TON
                         Tonga
      TT
          or
              OTT
                   for
                         Trinidad and Tobago
      TN
              TUN
                   for
                         Tunisia
          or
              TUR for
      TR
                         Turkey
          or
      MT
              TKM
                   for
                         Turkmenistan
          or
              TCA for
      TC
                         Turks and Caicos Islands
          or
      TV
              TUV for
                         Tuvalu
1
          or
25
      UG
              UGA for
                         Uganda
          or
      UA
              UKR for
                         Ukraine
          or
      ΑE
              ARE
                  for
                         United Arab Emirates
          or
      GB
              GBR for
                         United Kingdom
          or
                         United Republic of Tanzania
      TZ
              TZA
                   for
          or
30
      US
                   for
          or
              USA
                         United States
      UM
                   for
                         United States Minor Outlying Islands
      VI
              VIR for
                         United States Virgin Islands
          or
      UY
          or
              URY
                   for
                         Uruquay
      UZ
              UZB for
                         Uzbekistan
          or
35
      VU
              TUV
                   for
          or
                         Vanuatu
      VA
          or
              VAT
                   for
                         Vatican City State (see Holy See)
      VE
          or
              VEN
                   for
                         Venezuela
      VN
              MNV
                  for Viet Nam
          or
```

```
Virgin Islands, British
     VG
             VGB
                   for
         or
                        Virgin Islands, U.S.
     VI
                   for
         or
             VIR
             WLF
                   for
                        Wallis and Futuna Islands
     WF
         or
                        Western Sahara
     EΗ
             ESH
                   for
         or
5
     ΥE
             YEM
                   for
                        Yemen
         or
     YU
             YUG
                   for
                        Yugoslavia
         or
     CG
                   for
                        Zaire (The Democratic Republic of Congo)
             COG
         or
     ZM
         or
             ZMB
                   for
                        Zambia
                        Zimbabwe
     ZW
             ZWE
                   for
         or
```

Using the country's area code as a way of assigning names to secondary eight bit data character sets, is one possible way of producing the secondary chordic combinations sets for any and all language alphabet scripts or character sets. Entry of the preferred country area codes exits the standard eight bit binary chordic data entry method mode, found in this patent application, and enters a secondary eight bit binary chordic data entry method mode set. Languages with extensive alphabet scripts or character sets, like Chinese, requires an eight bit binary data chord followed by an extra secondary eight bit binary data chord. Reassigning the present eight bit binary code invention arrangement, without departing from the spirit and scope of the invention as a whole, produces all language alphabet scripts or character sets.

```
93
            for
                 Afghanistan
25
      355
            for
                 Albania
      213
            for
                 Algeria
      684
                 American Samoa
            for
      376
            for
                 Andorra
      244
                 Angola
            for
30
       54
            for
                 Argentina
```

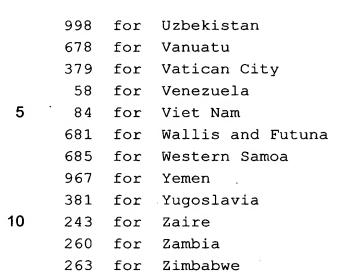
```
374
            for
                 Armenia
      297
            for
                 Aruba
      247
            for
                 Ascension
        61
                 Australia
            for
 5
      672
            for
                 Australian Ext. Terr.
        43
            for
                 Austria
      994
            for
                 Azerbaijan
      973
            for
                  Bahrain
      880
            for
                 Bangladesh
10
                 Belarus
      375
            for
                 Belgium
       32
            for
      501
            for
                 Belize
      229
            for
                 Benin
      975
            for
                 Bhutan
n in
15
      591
            for
                  Bolivia
      387
            for
                 Bosnia - Herzegovina
Hard then the
      267
            for
                 Botswana
       55
            for
                 Brazil
      673
                  Brunei Darussalam
            for
20 1 1 1 1 1 2 5
      359
            for
                 Bulgaria
      226
            for
                 Burkina Faso
      257
            for
                 Burundi
      855
            for
                 Cambodia
      237
            for
                 Cameroon
      238
                 Cape Verde
            for
      236
            for
                 Central African Rep.
      235
            for
                 Chad
       56
            for
                 Chile
       86
            for
                 China (People's Rep.)
30
        57
            for
                 Colombia
      269
            for
                 Comoros Is.
      242
            for
                 Congo
      682
            for
                 Cook Islands
      506
                 Costa Rica
            for
35
      385
            for
                 Croatia
       53
            for
                 Cuba
      357
            for
                 Cyprus
      420
            for
                 Czech Republic
```

```
for
                 Denmark
       45
      246
            for
                 Diego Garcia
      253
            for
                 Djibouti
      670
            for
                 East Timor
 5
      593
            for
                 Ecuador
       20
            for
                 Egypt
      503
            for
                 El Salvador
      291
            for
                 Eritrea
      372
            for
                 Estonia
10
      251
            for
                 Ethiopia
      240
            for
                 Equatorial Guinea
      691
            for
                 F.S. Micronesia
      298
                 Færoe Islands
            for
      500
            for
                 Falkland Islands
15
15
      679
            for
                 Fiji
358
            for
                 Finland
       33
            for
                 France
      689
            for
                 French Polynesia
      241
            for
                 Gabon
      220
                 Gambia
            for
      995
            for
                 Georgia (Republic of)
       49
            for
                 Germany
      233
            for
                 Ghana
      350
                 Gibraltar
            for
       30
            for
                 Greece
      299
            for
                 Greenland
      590
            for
                 Guadeloupe
      502
            for
                 Guatemala
      594
            for
                 Guiana (French)
30
      224
            for
                 Guinea
      245
            for
                 Guinea-Bissau
      592
            for
                 Guyana
      509
            for
                 Haiti
      504
            for
                 Honduras
35
      852
            for
                 Hong Kong
       36
            for
                 Hungary
      354
            for
                 Iceland
       91
           for
                 India
```

```
62
           for
                 Indonesia
       98
           for
                 Iran
      964
           for
                 Iraq
      353
           for
                 Ireland
5
      972
           for
                 Israel
       39
           for
                 Italy
      225
           for
                 Ivory Coast
       81
           for
                 Japan
      962
           for
                 Jordan
10
      997
                 Kazakhstan
           for
      254
           for
                 Kenya
      686
           for
                 Kiribati
      850
           for
                 Korea (North)
       82
           for
                 Korea (South)
965
           for
                 Kuwait
      996
           for
                 Kyrgyz Republic
      856
           for
                 Laos
      371
           for
                 Latvia
      961
           for
                 Lebanon
      266
           for
                 Lesotho
      231
           for
                 Liberia
      218
           for
                 Libya
      423
                 Liechtenstein
           for
      370
                 Lithuania
           for
25
      352
           for
                 Luxembourg
      853
           for
                 Macau
      389
           for
                 Macedonia (FYR)
      261
           for
                 Madagascar
      265
           for
                 Malawi
30
       60
           for
                 Malaysia
      960
           for
                 Maldives
      223
           for
                 Mali
      356
           for
                 Malta
      692
           for
                 Marshall Islands
35
      596
           for
                 Martinique
      222
                 Mauritania
           for
      230
           for
                 Mauritius
      269
                 Mayotte ( Comoros Is.)
           for
```

```
52
           for
                 Mexico
      691
            for
                 Micronesia
      373
            for
                 Moldova
      377
            for
                 Monaco
 5
      976
            for
                 Mongolia
      212
            for
                 Morocco
      258
            for
                 Mozambique
       95
            for
                 Myanmar (Burma)
      264
            for
                 Namibia
10
      674
            for
                 Nauru
      977
            for
                 Nepal
       31
                 Netherlands
            for
      599
            for
                 Netherlands Antilles
      687
            for
                 New Caledonia
64
            for
                 New Zealand
      505
            for
                 Nicaragua
      227
            for
                 Niger
      234
            for
                 Nigeria
      683
            for
                 Niue
        1
            for
                 North America
       47
                 Norway
            for
      968
            for
                 Oman
       92
                 Pakistan
            for
      680
            for
                 Palau
25
      970
            for
                 Palestine
      507
            for
                 Panama
      675
            for
                 Papua New Guinea
      595
            for
                 Paraguay
       51
            for
                 Peru
30
       63
            for
                 Philippines
       48
            for
                 Poland
      351
            for
                 Portugal
      974
            for
                 Qatar
      262
            for
                 Reunion Island
35
       40
            for
                 Romania
        7
            for
                 Russia (Kazakhstan)
      250
                 Rwanda
            for
      290
                 Saint Helena
            for
```

```
378
           for
                 San Marino
      239
                 São Tomé & Principé
           for
      881
           for
                 Satellite services
      966
                 Saudi Arabia
           for
 5
      221
           for
                 Senegal
      248
           for
                 Seychelles
      232
           for
                 Sierra Leone
       65
           for
                 Singapore
      421
           for
                 Slovakia
10
      386
           for
                 Slovenia
                 Solomon Islands
      677
           for
      252
           for
                 Somalia
       27
           for
                 South Africa
       34
           for
                 Spain
94
           for
                 Sri Lanka
      508
           for
                 St. Pierre & Miquélon
      249
           for
                 Sudan
      597
           for
                 Suriname
      268
           for
                 Swaziland
       46
           for
                 Sweden
       41
                 Switzerland (Liecht.)
           for
      963
           for
                 Syria
      886
                 Taiwan (reserved)
           for
      992
           for
                 Tajikistan
      255
           for
                 Tanzania
       66
           for
                 Thailand
      228
           for
                 Togo
      690
                 Tokelau
           for
      676
           for
                 Tonga
30
      216
           for
                 Tunisia
       90
           for
                 Turkey
      993
           for
                 Turkmenistan
      688
           for
                 Tuvalu
      256
           for
                 Uganda
35
      380
           for
                 Ukraine
      851
           for
                unassigned
      971
           for
                 United Arab Emirates
       44
           for
                 United Kingdom
```



It is possible to choose a variety of scripts and data entry choices such as Latin based language alphabets, multinational languages, any and all foreign languages with less than 65,025 (255 × 255) characters in the language, font set, monetary symbols set, phonetic symbols set, typographic symbols set, iconic symbols set, math symbols set, scientific symbols set, box drawing symbols set, graphics, macros, etc. Exiting a mode or any modes can be achieved by using the "shift out" (#175) function.

The eight bit binary code can also be used as a finger braille type of communication by the deaf-blind, where the transmitter transmits (Finger Braille) the mirror imaged binary data chord from the left hand onto the right hand and the mirror imaged binary data chord from the right hand onto the mirror imaged left hand, so the receiver receives (Fingers) the binary data in its preferred embodiment. This physiological aspect of this method is that the transmitter

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already knows what they are going to transmit, so they simply switch the four digit binary chords on either hand so that the receiver has more time to easily process the binary data into words and other types of communication. If an individual is missing a thumb digit, the system can be implemented by using the index, middle, ring and little (pinkie) digit of the left and right hands. When used as a form of binary braille finger spelling for the deaf-blind, two individuals face each other, and place their hands in the following touching arrangement: transmitters left hand to receivers right hand and transmitters right hand to receivers left hand, thumb to thumb, digit to digit, etc. When transmitting data, the transmitter transmits binary hand chords from the preferred left hand group to the right hand group and from the preferred right hand group to the left hand group. For example, when transmitting the lower-case letter "b" (#40) chord (0001 0100), the transmitter transmits the mirror image binary chord for the upper-case vowel "E" (#20)(0010 1000). The receiver will then receive the lower case letter "b". The technique for producing vowel and consonant chords to communicate to a deafblind individual is explained in the Finger Braille tables found in FIGS. 1A-1P. An easier to learn arrangement is explained in the Finger Braille tables found in FIGS. 3A-3L.

The system and method of the invention is logically developed and implemented so that it is easy to learn and quick to use, especially for those who are handicapped or

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sight impaired.

These and other features of the present invention will be more fully understood by referencing the drawings.

The system and method can use a variety of different keyboards, including some that are already on the market. For example, the split space bar QWERTY keyboard needs only to be reprogrammed. Additional instructions can be entered by the keyboard system and method according to the preferred embodiment which are consistent with instructions that also can be produced with the QWERTY keyboard, Dvorak keyboard, or other types of Latin based alphabet foreign language keyboards such as the Spanish, French, German, Italian, Swedish/Finnish, Canadian bilingual along with many other types of Latin based alphabet keyboards known to those of ordinary skill in the art, as long as they have as split space bar or a way of using at least eight keys or sensors to enter data. Other known keyboards and data entry devices can also be employed for the same purpose of entering information into a word processor or computer, such as typewriters, braille writers, word processors, phones, computers systems, laptops, keyboards, touch screen input devices, PDAs, cell phones, virtual keyboards and the like.

The most convenient way to employ the improved keyboard system is to provide an interface or software which translates the eight digit binary code into a standard computer code such

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as ASCII, extended ASCII or EBCDIC, which a conventional computer will be able to recognize. This can be done external to the computer through a hardwired interface, internal to the computer through an electronic interpreter or through a software program using the translation instructions found in FIGS. 1A-1P using source code programming techniques that are very well known to those of ordinary skill in the art.

In summary, the virtual keyboard invention, using an eight bit binary code data entry system and method, according to the preferred embodiment and alternative embodiments of the invention, is relatively easy to learn and very easy to use, especially by handicapped and visualy impaired individuals. The vowels, consonants, numbers, etc. are produced in a unique and logical way that makes them easy to learn and remember, and also quick to implement. Other features and functions of the invention achieve the same result.

While the invention has been described with reference to the preferred embodiment thereof, it will be appreciated by those of ordinary skill in the art that various modifications can be made to the system and method of the invention without departing from the spirit and scope of the invention as a whole.

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